

RESPONSE TO OFFICE COMMUNICATION
U.S. Appln. No. 09/856,362

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended)A very broad band wavelength division multiplexed transmission system comprising optical media for carrying signals subject to a Raman effect, said system further comprising means for compensating energy transfers between channels caused by the Raman effect.

2. (Original)The system of claim 1, characterized by a bandwidth greater than 20 THz.

3. (Original)The system of claim 1, characterized by a bandwidth greater than 30 THz.

4. (Previously presented)The system of claim 1, characterized in that said band extends beyond 1620 nm.

5. (Previously presented)The system of claim 1, characterized in that the compensation means compensate depletion in channels over the beginning of the band.

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6. (Original)The system of claim 5, characterized in that the compensation means compensate depletion in the channels at the beginning of the band over a bandwidth lying in the range 13 THz to 21 THz.

7. (Previously presented)The system of claim 1, characterized in that the compensation means compensate enrichment of channels over the end of the band.

8. (Original)The system of claim 7, characterized in that the compensation means compensate enrichment of the channels over the end of the band over a bandwidth lying in the range 13 THz to 21 THz.

9. (Previously presented)The system of claim 7, characterized in that the compensation means compensate enrichment of the channels over the end of the band by linear losses in the fiber of the transmission system.

10. (Previously presented)The system of claim 7, characterized in that the compensation means comprise means for emitting lower powers over the end of the band.

11. (Currently amended)A very broad band optical amplification system comprising optical media for carrying signals subject to a Raman effect, said system further comprising

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compensation means for compensating energy transfers between channels caused by the Raman effect.

12. (Original)The system of claim 11, characterized by a bandwidth greater than 20 THz.

13. (Original)The system of claim 11, characterized by a bandwidth greater than 30 THz.

14. (Previously presented)The system of claim 11, characterized in that the compensation means compensate depletion in the channels over the beginning of the band.

15. (Original)The system of claim 14, characterized in that the compensation means compensate depletion in the channels over the beginning of the band over a bandwidth lying in the range 13 THz to 21 THz.

16. (Previously presented)The system of claim 14, characterized in that it comprises distributed amplification means over the beginning of the band.

17. (Original)The system of claim 16, characterized in that the distributed amplification means comprise Raman amplification means.

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18. (Previously presented)The system of claim 16, characterized in that the distributed amplification means comprise rare earth amplification means.

19. (Previously presented)The system of claim 11, characterized in that the compensation means compensate enrichment of the channels over the end of the band.

20. (Original)The system of claim 19, characterized in that the compensation means compensate enrichment of the channels over the end of the band over a bandwidth lying in the range 13 THz to 21 THz.

21. (Previously presented)The system of claim 1, characterized in that said band extends beyond 1650 nm.

22. (Previously presented)The system of claim 1, characterized in that said band extends beyond 1670 nm.